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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,693	12/29/2003	Mehdi M. Hassane	10559-911001 / P18021	2010
20985	7590	01/17/2006	EXAMINER	
FISH & RICHARDSON, PC P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022				KROFCHECK, MICHAEL C
ART UNIT		PAPER NUMBER		
		2186		

DATE MAILED: 01/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/748,693	HASSANE, MEHDI M.
	<b>Examiner</b>	<b>Art Unit</b>
	Michael Kroccheck	2186

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 29 December 2003.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-35 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) 23-35 is/are allowed.
- 6) Claim(s) \_\_\_\_\_ is/are rejected.
- 7) Claim(s) 1-22 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 29 December 2003 is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    - a) All    b) Some \* c) None of:
      1. Certified copies of the priority documents have been received.
      2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
      3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

**DETAILED ACTION**

1. This office action is in response to application 10/748,693 filed on 12/29/2003.
2. Claims 1-35 have been submitted for examination and examined.
3. This application is in condition for allowance except for the following formal matters:

***Claim Objections***

4. Claims 1-22 are objected to because of the following informalities:
  - a. With respect to claims 1 and 18, the last paragraph is difficult to understand. The lack of punctuation between the words 'set' and 'with' in the 3<sup>rd</sup> to last lines contributes to it. In addition to adding a comma or semicolon, the examiner suggests putting the limitation starting with, "with the data used to..." in a separate paragraph.
  - b. With respect to claim 15, in the second line, the phrase, "after to using," should be replaced with, "after using."
  - c. The claims not specifically mentioned are objected to because of their dependencies.

Appropriate correction is required.

***Allowable Subject Matter***

5. Claims 23-35 are allowed.

6. Claims 1-22 are allowable if rewritten to overcome their respective objections.
7. The following is a statement of reasons for the indication of allowable subject matter:
  - d. With respect to claims 1-22, specifically independent claims 1 and 18, the prior art fails to teach of filling a cache set of a cache memory with data associated with addresses in a main memory that correspond to the cache set either after the first processor writes a unit of data to addresses that correspond to the cache set, or before the first processor reads a unit of data written by the second processor to addresses that correspond to the cache set; where the data used to fill the cache set is associated with addresses that are ***different*** from the addresses associated with the unit of data.
  - e. With respect to claims 23-35, specifically independent claims 23, 28, and 31, the prior art fails to teach of the first processor generating dummy read instructions either after generating one or more write instructions to write data intended for the second processor, or before generating one or more read instructions to read data that was written by the second processor.

### ***Conclusion***

8. Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.
9. A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Kroccheck whose telephone number is 571-272-8193. The examiner can normally be reached on Monday - Friday.

12. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt Kim can be reached on 571-272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Michael Kroccheck



MATTHEW D. ANDERSON  
PRIMARY EXAMINER